

ABSTRACT OF THE DISCLOSURE

A fusion protein is made up of (1) an antibody and (2) a peptide having a biological activity selected from the group consisting of immuno-stimulatory, membrane transport and homophilic activities wherein the peptide is connected to the antibody at a site that does not interfere with antigen binding of the antibody. The fusion protein is made by the steps of creating a fusion gene including a nucleic acid sequence encoding an antibody and a nucleic acid sequence encoding the peptide, wherein the nucleic acid sequence encoding the peptide is located inside the nucleic acid sequence encoding the antibody at a site wherein, when the fusion is expressed, the fusion protein created thereby comprises the antibody and the peptide, wherein the peptide is connected to the antibody at a site that does not interfere with antigen binding of the antibody, and expressing the fusion gene to create the fusion protein.

N-terminal residues or the C-terminal residues of H or L chains. The expression of such fused genes is typically done in mammalian cell lines as so-called fusion protein.